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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

[REDACTED]
TU-YUN PROBABLE NITROGENOUS FERTILIZER PLANT
TU-YUN, CHINA

Declass Review by NIMA/DOD

[REDACTED]

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CIA/PIR 65059

DATE Nov. 1965

COPY

PAGES 7

GROUP 1
Excluded from automatic
downgrading and declassification

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FIGURE 1

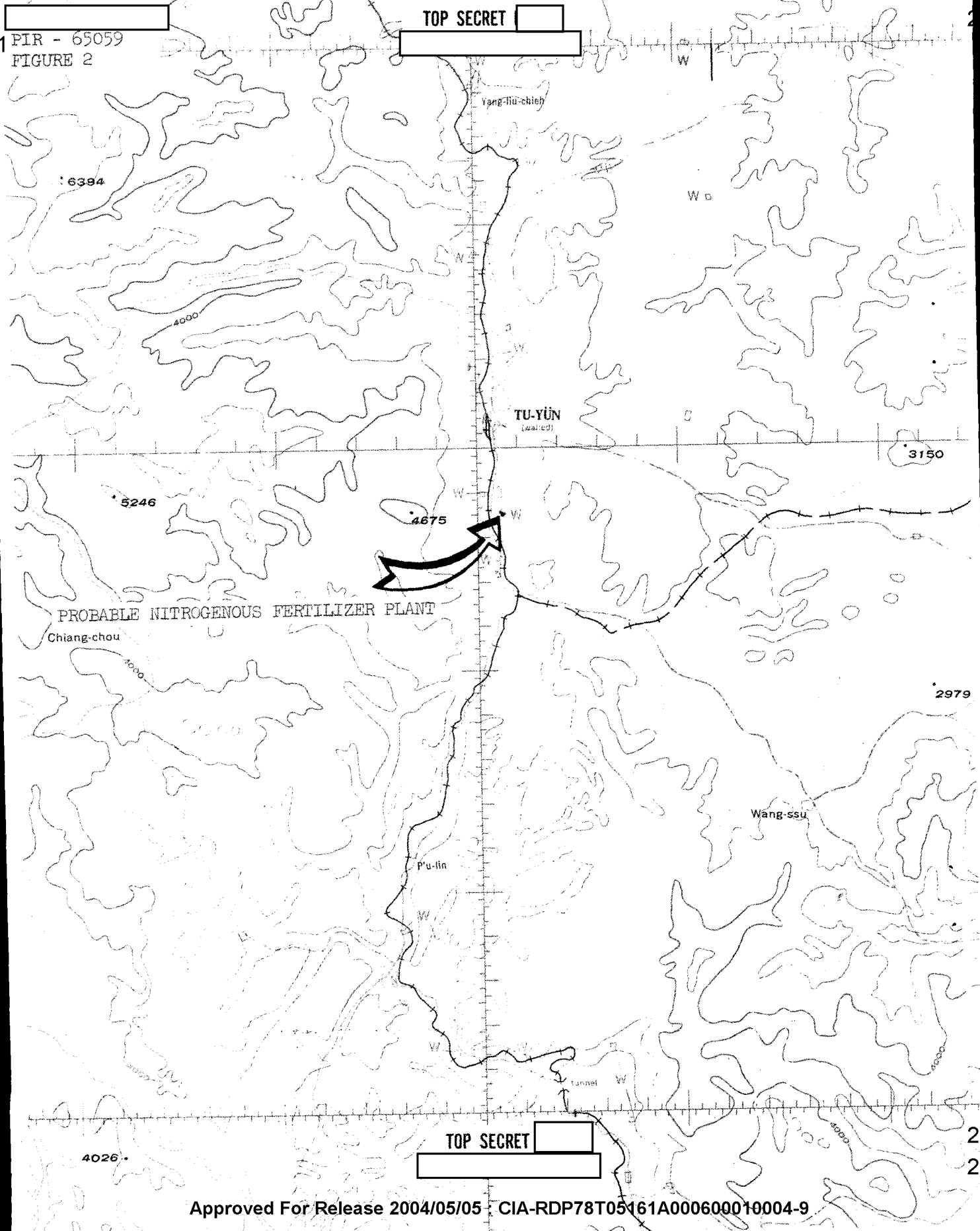
PREPARED BY - Chemical and Scientific Section,
Industrial Branch, IAD

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FIGURE 2



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TU-YUN PROBABLE NITROGENOUS
FERTILIZER PLANT, TU-YUN, CHINA

A probable nitrogenous fertilizer plant is situated approximately 2 nm south of Tu-Yun, China at geographic coordinates 26° 13'N - 107° 30'E; Figures 1 and 2.

This report is based on photography [REDACTED] Figures 3 and 4. The photography, in both instances, is not of sufficiently high quality to permit a detailed analysis of the installation. However, several general observations and conclusions can be made.

When first seen in [REDACTED] the plant appeared to be in the mid stages of a reconstruction program. A rail spur terminating at an overhead bulk-loading facility was apparently nearing completion. Two large gas holders were present, as were two or more silos, a possible prilling tower and two or three groups of chemical/heat-processing facilities. The northern limits of the plant area cannot be determined on available photography. Two large saw-tooth roofed buildings at the north end of the plant area between the highway and railroad bridges appear to be light fabrication structures but they could be used for warehousing or batch processing; a possible steam plant is located between the two buildings.

The following descriptions and comments relative to the various plant facilities are keyed to the overlay (overprint) to figure 4:

- No. 1: New road and bridge providing access to the plant and adjacent installations.
- No. 2: Three intermediate sized buildings have been erected in this area since [REDACTED] Several small shed or warehouse-type structures have been razed.
- No. 3: This structure appeared to be a compressor building on the [REDACTED] photography. The [REDACTED] coverage shows that the building has been enlarged to more than twice its former size and a tower-like structure has been erected on one side of the original building. This configuration suggests a gas compressor and synthesis facility for the manufacture of ammonia. Extensive white staining evident on the roof of this large structure suggests that it is an ammonia-based fertilizer production building.
- No. 4: There are at least two, probably four, large silos at this location. They are typical of the type in which lime or other dry bulk materials are stored. There is some evidence to suggest that part of the Tu-Yun plant is involved in the processing of bulk raw material excavated from the adjacent hills to the east, probably limestone.

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- No. 5: There is a tall, tower-like structure at this location; square in plan. A probable new building has been erected adjoining it since the earlier photography. The building and tower may be a prilling facility.
- No. 6: The terminus of the rail spur and an overhead bulk-loading facility are situated in the southwest corner of the plant area.
- No. 7: A settling pond and possible water treatment facility are located in this section of the plant.

X1 In general, it may be said that the Tu-Yun installation also has at least one acid plant (Nitric) and possibly a sulphuric acid facility as well. It is probable that a number of smaller structures/processing equipment and small tanks have been built during the past three years. A considerable number of pre-existing buildings have been razed during the same time period. The [] coverage indicates the possibility that construction was continuing at that time and that only a partial or limited production capability had been achieved.

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REFERENCES

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MAPS OR CHARTS

Locator Map, Communist China, 38936, 12-63 (Official Use Only)

ACIC, US Air Target Chart, Series 200, Sheet 0497-11A, 1st Edition, Feb. 1960,
Scale 1:200,000. (Confidential)

REQUIREMENT

CIA C-RR5-83,036

CIA/IAD PROJECT - 30432-6

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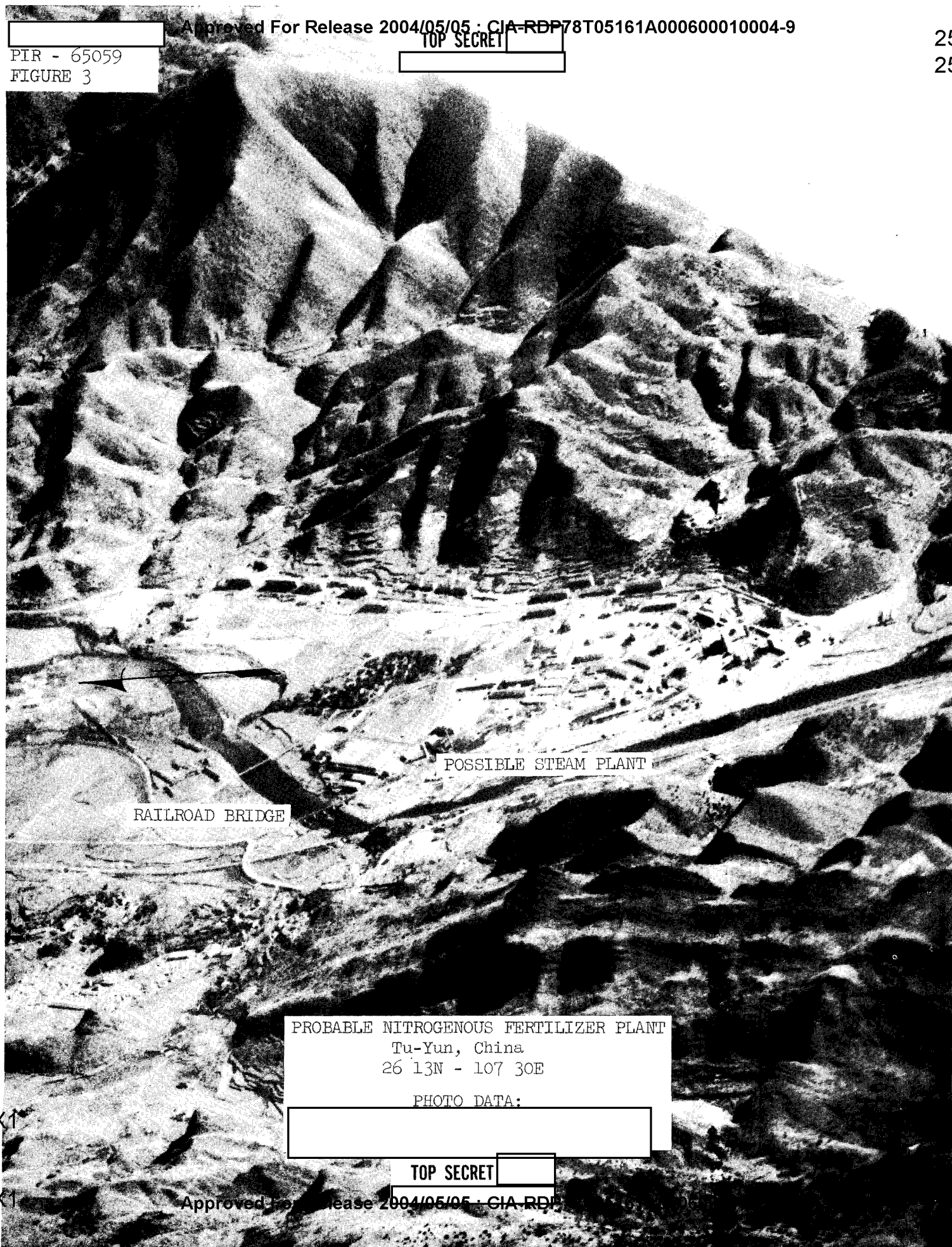
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FIGURE 3

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RAILROAD BRIDGE

POSSIBLE STEAM PLANT

PROBABLE NITROGENOUS FERTILIZER PLANT

Tu-Yun, China
26 13N - 107 30E

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FIGURE 4

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HIGHWAY BRIDGE

PROBABLE NITROGENOUS FERTILIZER PLANT
Tu-Yun, China
26 13N - 107 30E

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